RYCHIN, U.

Flora Gigrofitov (Hydromorphous Flora - Encyclopedia of Vegetation in Cisterns and Damp Regions in the Central Part of the European Territory of the USSR)

445 p. 2.00

SO: Four Continent Book List, April 1954

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| RYCHIN, YU. V. | | |
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| Agriculture | | |
| Trees and shrubs the Hiropean part | s of forests, parks, t of the U.S.S.R. Mc | , gardens and shelterbelts in the central belt of bookva, Uchpedgiz, 1950. |
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- 1. RYCHIN, YU.V.
- 2. USSR (600)
- 4. Agriculture
- 7. Weeds. Moskva, Uchpedgiz, 1952

9. Monthly List of Russian Accessions, Library of Congress. February, 1953. Unclassified.

RYCHIN, Yu. V.

Forests and Forestry

Unsuccessful pemphlet ("Forest hospital." n.m. Berzilin. Reviewed by Yu. Y. Rychin). Est. v shkole no. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, September 19521953, Uncl.

RYCHIN, Yu. V.

Lukina, Ye. V.

"Bird village." Ye. V. Lukina. Reviewed by Yu. V. Rychin. Est. v shkole no. 4, 1952

Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.

RYCHIN, Yu. V.

Yu. V. RICHIN, Derev'ya i kustarniki zimoy /Trees and Shruns in Winter, a handbook for winter botanical excursions, Uchpedgiz, 9 sheets.

The identification manual for trees and shrubs in winter (by branches and buds) cinsists of of tables forming an identification key. The description concerns plants widely disseminated in the Central Pelt of the European part of the USSR.

The book is intended for the middle-school teacher.

so: U-6472, 12 Nov 1954

| "Adventures of fruits and seeds." V.Korsunskaia. Reviewed by IU.V.Rychin. Est. v shkole no.3:89-90 My-Je *54. (MIRA 7:7) 1. Moskovskiy gorodskoy institut usovershenstvovaniya uchiteley. (for Rychin) (Korsunskaia, V.) (Fruit) | PYCHIN, | Yu. V. RYCHIN, Yu.V. | |
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RYCHIN, Yu. V.

USSR/ Biology-Botany

Card

: 1/1

Authors

Rychin, Yu. V. (Moscow)

Title

Rare plant found in water reservoirs around Moscow

Periodical: Priroda, 6, 109 - 110, June 1954

Abstract : A rare plant Limnanthemum nymphaeoides Link. of the Gentianaceae family found in the water reservoirs around the city of Moscow USSR

is described. Illustrations.

Institution :

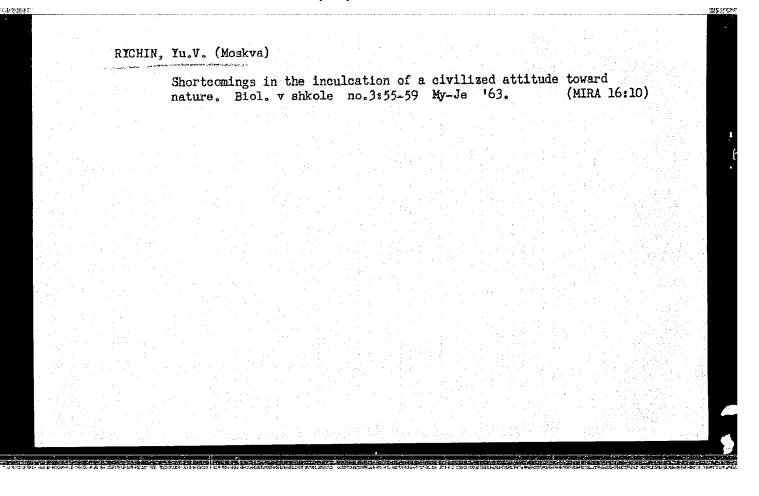
Submitted :

BOCHAROV. Saveliy Yemel'yanovich; RYCHIN, Yuriy Vladimirovich; NEKHLYUDOVA, A.S., redaktor; TSYPPO, R.V., tekhnicheskiy redaktor.

[Work with medicinal plants in the school; a manual for teachers]
Rabota s lekarstvennymi rasteniiami v shkole; posobie dlia uchitelei.
Moskva. Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia
RSFSR, 1956. 114 p.

(BOTANY_MEDICAL)

| RYCHIN, Yu.V | | |
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| RYCHIN, | | |
| The second second | Care and breeding of pigeons. Biol.v shkole no.1:62-65 Ja-F '57. (MLRA 10:5) | |
| | 1.Zasluzhennyy uchtitel' shkoly RSFSR. Shkola no.29 goroda Moskvy. (Pigeons) | |
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RYCHIN, Yu.V., zasluzhernyy uchitel! (Moskva)

"Birds in captivity" by K.N. Blagosklonov. Reviewed by
IU.V. Rychin. Biol. v shkole no.5:88-90 S-0'61. (MIRA 14:9)
(Birds—Behavior)
(Blagosklonov, K.N.)

| | Conservation of nature should be approached carefully. Biol. v shkole no.4:53-54 Jl-Ag '61. (Natural resources-Study and teaching) |
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RYCHIN, Yu.V., zasluzhennyy uchitel' shkoly RSFSR, Moskva.

Key for identification of plants for fifth and sixth grade grade students ("What is growing around you" by I.V. Ivanova. Reviewed by IU.V. Rychin). Biol. v shkole no. 1:91-93 Ja-F'61.

(Botany—Glassification) (Ivanova, I.V.)

KIREYEV, Mikhail Ivanovich; KOVARSKIY, Aleksandr Il'ich; YEGOROV, G.P., nauchnyy red.; RYCHEK, T.I., red.; PERSON, M.N., tekhn.red.

[Construction and operation of electric power plants, electric substations, and electric power transmission lines] Montazh i ekspluatatsiia elektricheskikh stantsii, podstantsii i linii peredach. Moskva, Vses.uchebno-pedagog.izd-vo Proftekhizdat, (MIRA 14:1) (Electric power plants) (Electric power distribution)

RYCHIN, Yuriy Vladimirovich; STANKOV, S.S., prof., red.; RYBAKOVA, N.T., red.; KOZLOVSKAYA, M.D., tekhn.red.

[Weeds; a guide to the central areas of the European U,S.S.R.]
Sornye rasteniia; opredelitel dlia srednei polosy Evropeiskoi
chasti SSSR. Izd.2. Moskva, Ges.uchebno-pedagog.izd-ve M-va
presv.RSFSR, 1959. 289 p. (MIRA 12:7)
(Weeds)

(MIRA 12:7)

RYCHIN. Yuriy Vladimirovich; RYBAKOVA, N.T., red.; KOZLOVSKAYA, M.D., tekhn.red. [Guide to trees and shrubs; a manual for teachers in secondary schools] Drevesno-kustarnikovaia flora; opredelitel'. Posobie dlia uchitelei srednei shkoly. Moskva, Gos.uchebno-pedagog. izd-vo M-va prosv.RSFSR, 1959. 290 p. (MIRA 12

(Trees)

(Shrubs)

RYCHIN, Yu.V., zasluzhennyy uchitel' shkoly RSFSR

Indoor cultivation of some plants of the amaryllis family. Biol. v shkole no.5:79-80 S-0 '58. (MIRA 11:11)

1. Moskovskiy gorodskoy institut usovershenstvovaniya uchiteley. (Amaryllis)

RYCHKA, V.; KOCHHEV, V. (Moskva)

Simple f.m. radio receiver. Radio no.2:42-43 F '60.
(MIRA 13:5)
(Radio frequency modulation--Receivers and reception)

30310 s/115/61/000/008/006/009 E073/E182

9,3273 (1040)

AUTHOR:

On a method of measuring frequency deviations

PERIODICAL: Izmeritel'naya tekhnika, no.8, 1961, TITLE A new method is proposed which is based on a known method of measuring the frequency deviation of frequency-modulated signals which can be applied for calibrating the instruments for measuring the deviation. The method is based on the zero amplitudes of the spectrum of a frequency-modulated signal. However, this is stated to have the following drawbacks; small number of reading-off points; existence of a minimum permissible modulation index; it is suitable only for the upper modulated frequencies; and finally, its accuracy is low, of the order of 10%. The method is modified by increasing the number of readingoff points by using also the zeros of the Bessel functions of the first and second orders. The measuring circuit is slightly different from currently used circuits. A block schematic of the circuit is given in Fig. 1, where: 1 - audio-oscillator; 2 - UHF CCC (GSS) (signal generator); 3 - receiver with double card 1/ 2

30310

On a method of measuring frequency ... S/115/61/000/008/006/009 E073/E182

frequency conversion; 4 - low frequency band-pass filter; 5 - oscillograph; 6 - quartz crystal calibrator. The beat frequency from the receiver is fed through a narrow-band, low-frequency filter to the input of the oscillograph. The method described reduces appreciably the above drawbacks and is suitable for accurate calibration measurements. The influence of nonlinear distoritions on the measuring error is also studied. There are 3 figures, 1 table and 3 Soviet-bloc references.

Fig. 1

6

Card 2/2

88386

s/108/60/015/010/014/016/XX B012/B077

9,3273

Rychka, V. L., Member of the Society

AUTHOR:

TITLE:

Impulse Frequency Detectors

Radiotekhnika, 1960, Vol. 15, No. 10, pp. 51-59

PERIODICAL:

TEXT: In the present work, a frequency detector of the impulse-counter type is investigated. The mode of operation of this detector and a very common circuit for impulse counting are described. Then, the formula $I_0 = \Delta UC_1 f(1-e^{-1/2\tau_0 f}) \qquad (3)$

for the frequency characteristic of the detector counter is derived; this is quite different from other S-curves. AU is the voltage gradient at the plate; $\tau_0 = c_1(R_1 + R_H + R_D)$, with $R_2 = R_3 = R_H$ and

 $R_{D_1} = R_{D_2} = R_{D}$. Equation (3) is expanded in a Taylor series to calculate the nonlinear distortions; and equations are given also for the coefficients K_2 and K_3 of the second and third harmonics, respectively, of the

card 1/2

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Impulse Frequency Detectors

S/108/60/015/010/014/016/XX B012/B077

nonlinear distortions. The influence of the load-limiting shunt capacity is investigated next. It is shown that the capacity of the capacitor in the differentiator is not to be smaller than the spurious capacity which shunts the plate load; if $\mathbf{C_1} > \mathbf{C_2}$ the influence of $\mathbf{C_2}$ can be neglected.

Thereupon the influence of the input capacity of the filter is investigated, and it is shown that shunting the detector load with a capacitor decreases the nonlinear distortions and improves the intermediate-

frequency filtering. If an LC filter is used, the capacity of this capacitor is limited, and using an RC filter a new circuit is obtained qualitatively if C₂ is increased. The effectiveness of this circuit dif-

fers considerably from that of the frequency-detector circuits described in Ref. 8. Experimental tests of this circuit showed that, when a frequency-modulated program was received, a pre-amplifier behind the detector is not necessary and that the signal can be sent directly to the output cascade of the low-frequency amplifier. The low selectivity of the aperiodic I-F amplifier is considered a shortcoming of this detector circuit, which can be eliminated by a double frequency conversion. There are 6 figures and 11 references: 3 Soviet and 1 German.

SUBMITTED: October 14, 1959

Card 2/2

2h072 8/106/61/000/002/001/006 A055/A133

9,3273

AUTHOR:

Rychka, V. L.

TITLE:

Passage of FM oscillations through an aperiodic amplifier

PERIODICAL:

Elektrosvyaz', no. 2, 1961, 3 - 11

TEXT: The distortion of FM-modulated signals in tuned and bandpass amplifiers has already been analyzed by Yevtyanov [Ref. 1: S. I. Yevtyanov, Perekhodnyve protsessy v priyemno - usilitel'nykh skhemakh (Transition Processes in Receiving and Amplification Circuits), Svyaz'izdat, 1948]; Gonorovskiy [Ref. 2: I. S. Gonorovskiy. Radiosignaly i perekhodnyve yavleniya v radiotsepyakh (Radio Signals and Transition Phenomena in Radio Circuits), Svyaz'izdat, 1954] and by Manayev [Ref. 3: "O shirine polosy pri priyemye chastotno-modulirovannykh signal-cv, neobkhodimoy dlya otsutstviya nelineynikh iskazheniy (On the Band Width of FM Signals Necessary for the Absence of Nonlinear Distortions) "Radiotekhnika", no. 5, 1948]. But the passage of FM-signals through an aperiodic amplifier and their ensuing distortion have not been examined as yet, because there seemed to be no practical reason justifying such an investigation. The use of IF aperiodic amplifiers becomes necessary, however, in some recently developed FM-receiver

Card 1/3

21:072 s/106/61/000/002/001/006

Passage of FM oscillations through an aperiodic amplifier A055/A133

designs, where the intermediate frequency must be of the order of 200 - 300 kc. The passage of FM-signals through aperiodic amplifiers is therefore analyzed in this article. The two causes of distortion -- i.e. the distortion due to the curvature of the phase characteristic and the distortion due to the transient processes - are considered separately. The method used by the author is the following: he begins by establishing the equation for the phase characteristic and analyzing it (the transient processes in the particular case of pulse-frequency modulation are briefly discussed); then, using this equation and the formula giving the frequency at the output of a quasi-stationary amplifier (as a function of the average input frequency, of the modulating frequency, of the maximum frequency deviation at the input and of the phase characteristic), the author calculates the coefficient of non-linear distortions. As a result of this theoretical reasoning and calculation, the author arrives at the following conclusions: 1) The aperiodic amplifier designed for the amplifying of FM-oscillations can be considered as quasi-stationary, and the effect of the transient process upon the FM-signal can therefore be neglected. 2) Non-linear distortions in the aperiodic amplifier are already small when the time-constant of the amplifier stage anode circuit $T_{\rm a}$ \leqslant 0.3 microsec, and the time-constant of the grid circuit $T_g > 80$ microsec. It follows that a steep slope of the frequency characteristic up to the level 0.7 is admissible at 500 kc; in other words, it Card 2/3

21,072

S/106/51/000/002/001/006

Passage of FM oscillations through an aperiodic amplifier A055/A133

is possible, in the majority of cases, to use the amplifier's connecting diagram without any high-frequency compensation. An experimental investigation proved the correctness of the author's conclusions. There are 5 figures and 8 references Soviet-bloc, 2 non-Soviet-bloc. The reference to the recent English-language publication reads as follows: Scroggie. "Low distortion FM discriminator", Wireless World, April 1956.

SUBMITTED:

February 17, 1960.

Card 3/3

S/115/63/000/002/006/008 E202/E492

AUTHOR:

Rychka, V.L.

TITLE:

Method of extremal frequencies for measurement of

frequency deviation

PERIODICAL: Izmeritel'naya tekhnika, no.2, 1963, 50-51

TEXT: A method of extremal frequencies as developed by P.A.Shpan'on and N.B.Potrov (Izmeritel'naya tekhnika, no.3, 1960), designated for measurement of low modulating frequencies smaller than 2 to 3 kcs, is discussed as a complementary study to the earlier work of the author on a similar method but applicable to frequencies in excess of these frequencies. The principle of this method lies in that in the measuring instrument receiving the FM oscillations, beats are formed between the signal of the instantaneous frequency and non-modulated voltage of any variable standard frequency oscillator. The beats are detected by an amplitude detector, amplified and fed to an oscilloscope. Although the input FM signal is accompanied by a parasitic AM and the resonance curve of the receiver may be nonsymmetrical or insufficiently wide so that the CRT picture shows a somewhat Card 1/3

Method of extremal ...

S/115/63/000/002/006/008 E202/E492

distorted modulating voltage, this curve does not interfere but even helps in the measurement of the frequency deviation. By continuous changes of frequency it is possible with this method to reach such a position that two zero beats are exactly coincident. This means that the frequency of the standard generator is exactly equal to the highest (or the lowest) value of the instantaneous frequency. This point may be discovered with great accuracy so that the error of the zero beat arrangement is of the order of 100-ths of a percent of the nominal value of a 50 kcs frequency deviation and the accuracy of measurement of the maximum frequency deviation is largely determined by the accuracy of scale reading of the nonmodulated oscillator. The block diagram of the experimental set-up consisted of an FM oscillator, HF amplifier mixer, IF amplifier, amplitude detector, The first heterodyne was LF amplifier and an oscilloscope. connected to the mixer and the second with a graduated frequency scale to the amplitude detector. If the signal has a symmetrical frequency modulation, the measurement of the maximal frequency deviation is very simple, viz the frequency deviation Card 2/3

Method of extremal ...

S/115/63/000/002/006/008 E202/E492

$$\Delta f_{av} = \frac{f_{max} - f_{min}}{2}$$

where f_{max} and f_{min} are the greatest and smallest instantaneous intermediate frequencies. With nonsymmetrical modulation two cases arise, one when the average FM of the oscillator remains unchanged and the other when it changes with increase of frequency deviation due to the changes of the quiescence point of the reactance tube. In these methods, the lower the modulation frequency the easier it is to find the beats and their point of coincidence. With a modulation frequency in excess of 1 to 2 kcs, zero beats are very poorly defined and their coincidence point can only be found after considerable training. The presence of nonlinear distortion in the measured FM signal has substantially no effect on the result of the measurement since the method measures only extremal frequencies. There are 3 figures.

Card 3/3

| Passing FM oscillations through an aperiodic amplifier. Elektrovsviaz' 15 no.2:3-11 F '61. (MIRA 14:3) (Applifiers(Electronics)) |
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| |

RYCHKA, V.L.

Concerning impulse frequency detectors. Radiotekhnika 15 no.10: 51-59 0 '60. (MIRA 14:9)

l. Deystvitel'nyy chlen Nauchno-tekhnicheskogo obshchestva radiotekhniki i elektrosvyazi im. A.S. Popova.

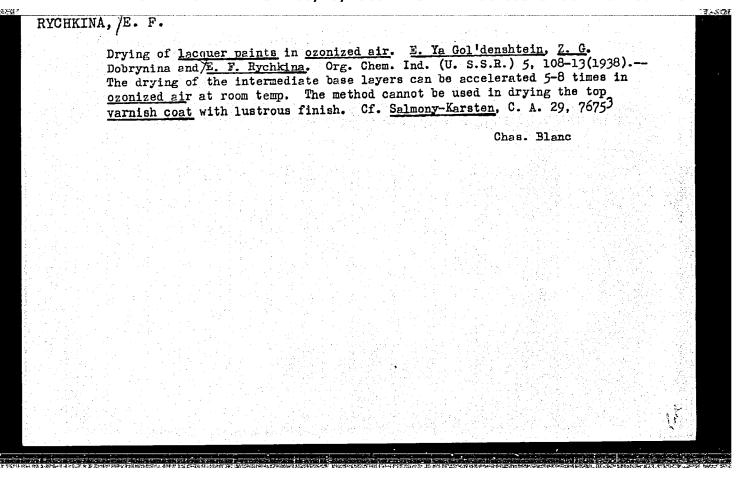
(Radio detectors)

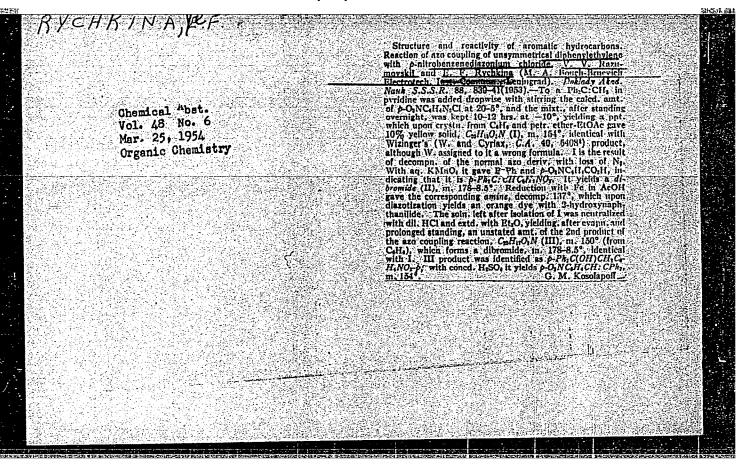
Some technological aspects of the processing of slightly spoiled beets and the control of technological production processes.

Sakh, prom. 35 no. 1;34-36 Ja '61, (MIRA 14:1)

1. Krasnodarskiy nauchno-issledovatel'skiy institut pochvovedeniya. (Sugar manufacture)

| RYCHKAL', | , A.G. |
|-----------|---|
| | Regulating the technology of sugar production. Sakh. prom. 34 no.8:21 Ag '60. (MIRA 13:8) |
| | 1. Maydanetskiy sakharnyy zavod. (Sugar manufacture) |
| | - 이렇게 살았다. 그는 이 그 살을 이 사람들이 들어 보고 있다. 그 이 그 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들이 되었다. 그는 사람들이 살아보는 사람들은 사람들은 사람들은 사람들이 되었다. 그는 사람들은 사람들은 사람들은 사람들은 사람들이 되었다. 그는 사람들은 사람들은 사람들은 사람들은 사람들이 되었다. 그는 사람들은 사람들은 사람들은 사람들이 되었다. 그는 사람들은 사람들은 사람들이 되었다면 보았다. 그런 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 |
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RYCHEIMA, Ye. F. and Razumovskiy, V. V.

Structure and Reactivity of Aromatic Hydrocarbons. I. The Azo-Soupling Reaction of Unsymmetrical Diphenyl Ethylene with p-Nitrophenyl Diagonium Chloride, page 1905.

Sbornik statey po obshchey khimii (Collection of Papers on General Chemistry), Vol II, Moscow-Leningrad, 1953, pages 1683-1686.

Lamingrad Electrical Engineering Inst of Communications imeni Professor M. A. Bonch-Bruyevich

RYCHIN, Yu. Yu. (Reviewer)

Birds

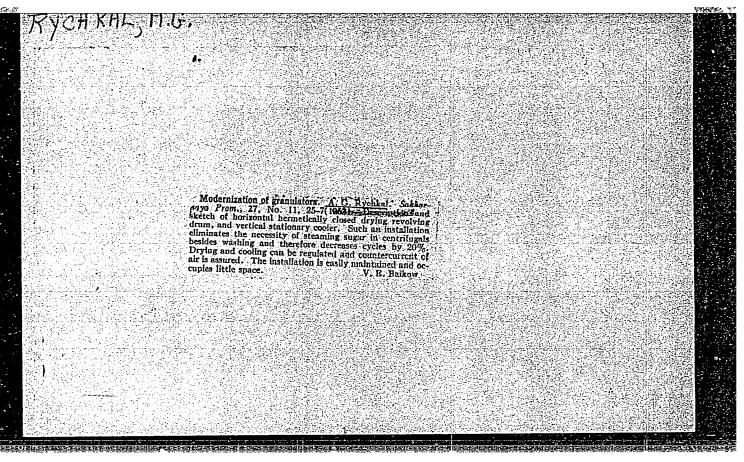
"Bird village" Ye. W. Lukina. Reviewed by Yu. V. Rychin. Est. v shkole No. 4 July-August 1952

Monthly Last of Russian Accessions Library of Congressm November, 1952 UNCALSSIFIED

Applying the newest scientific achievements in the cartography of the United States. p. 260. ACTA PHYSICA POLONICA. Warszawa. Vol. 12, No. 7, July 1956.

East European Accessions List (EEAL) Library of Congress Vol. 5, No. 11, August 1956.

| | | "B | .V.IA. | " r | otary | su | lphu | r f | urn | ace. | . S | akh | .pro | m. | 27 1 | 10.7 | : 39 | -41 | J1 | '53. (MI | RA 6 | :6) | | |
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| | | 1. | Sumske | oy | sakhs | vek | lotr | est. | • | | | | | | | | | | (Sug | ar i | ndus | try |) | |
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| 1. Pivnenkovskaya gruppovaya laboratoriya. (Sugar machinery) | Modernizing the design of dru 25-27 '53. | um driers for sugar. Saki | n.prom. 27 no.11: (MGRA 7:1) |
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| | 1. Pivnenkovskaya gruppovaya | laboratoriya. (Sugar machinery) | |
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RYCHKINA, YE. F.

Rychkina, Ye. F. -- "Interaction of Certain Phenylated Ethylenic Hydrocarbons with the Chloride of p-Nitrodiazobenzene," Leningrad State Pedegogical Inst imeni A. I. Gertsen, Leningrad, 1955 (Dissertation for the Degree of Candidate in Chemical Sciences)

SO: Knizhnaya Letopis', No 24, 11 June 1955, Moscow, Pages 91--104

アダミだ ドバ カーラビーデー

AUTHORS: Razumovskiy, V. V., Rychkina, Ye. F.

79-11-48/56

TITLE:

Structure and Reactivity of Aromatic Hydrocarbons.

(Stroyeniye i reaktsionnaya sposobnost' aromaticheskikh

uglevodorodov).

II. On the Reaction of the Azobond of Phenylated Ethylenes With Hydrogen-Chloride-G-Nitrodinzobenzene (II. O reaktsii azosochetaniya fenilirovannykh etilenov s khloristovodorodnym

--nitrodiazobenzolom).

PERIODICAL:

Zhurnal Obshchey Khimii, 1957, Vol. 27, Nr 11,

pp. 3143-3148 (USSR)

ABSTRACT:

By the action of 1,1-diphenylethylene upon hydrogenchloride-p-nitrodiazobenzene in pyridine solution two compounds form: 1,1-diphenyl-2-,-nitrophenylethylene and \(\sqrt{-\text{nitrobenzyldiphenyl-carbinol}. \) During further investigation of this reaction in an acetic solution the authors found that

nitrogen does not split off and that an azobond with

formation of 1,1-diphenyl-2,2-di- τ_1 -nitrobenzolazo)-ethylene occurs: $(C_6H_5)_2 = C(N_2C_6H_4NO_2)_2$. In order to prove that this

bond actually corresponds to a biazoformula, it was in the presence of hydrochloric acid reduced with stannic chloride.

Card 1/3

Structure and Reactivity of Aromatic Hydrocarbons. 79-11-48/56 II. On the Reaction of the Azobond of Phenylated Ethylenes With Hydrogen-Chloride-T-Nitrodiazobenzene

In the reduction products they found nonhenylenediamine which was for identification converted to quinonedichlorimine. It was shown that 1,1-diphenylpropene-1 in reaction with hydrogen-chloride-p-nitrodiazobenzene in a pyridine solution yields 1,1-diphenyl-? n-nitrophenylpropene-1 and 1,1-diphenyl-2-nitrophenylpropanol, but that in an acetic solution the extremely unstable 1,1-diphenyl-2-(nitrobenzolazo)-propene-1 develops. In the reaction of 2-phenylpropene with hydrogen-chloride n-nitrodiazobenzene in an acetic solution two products are obtained: n-nitrophenyl-2-phenylpropene-1 and the unsymmetrical di-(nitrobenzolazo)-methylphenylethylene. The infrared spectra cannot, as the authors earlier thought, serve as means of proving the structure of the compounds obtained. There are figure, and 5 references, 3 of which are Slavic.

Card 2/3

Structure and Reactivity of Aromatic Hydrocarbons. 79-11-48/56 II. On the Reaction of the Azobond of Phenylated Ethylenes With Hydrogen-Chloride 77-Nitrodiazobenzene

ASSOCIATION: Leningrad Electrotechnical Communications Institute

(Leningradskiy elektrotekhnicheskiy institut svyazi).

SUBMITTED: November 9, 1956

AVAILABLE: Library of Congress

1. Phenylated ethylenes - Chemical reactions

2. Hydrogen-chloride- 77-nitrodiazobenzene - Chemical reactions 3. Cyclic compounds - Chemical reactions

Card 3/3

KHRISHCHENOVICH, kh.; RADAVICHYUS, E. [Radavicius, E.]; KALININ, I.; RYCHKOV, A.; MY ANIMAA, E. [Mandmaa, E.]; IL'IN, V.

Increase the scope of efficiency work in financial organs. Fin. SSSR 37 no.1:62-68 Ja '63. (MIRA 16:2)

1. Predsedatel' komissii po ratsionalizatorskim predlozheniyam Ministerstva finansov Belorusskoy SSSR (for Khrishchenovich).

2. Predsedatel' komissii po ratsionalizatorskim predlozheniyam Ministerstva finansov Litovskoy SSR (for Radavichyus). 3. Predsedatel' komissii po ratsionalizatorskim predlozheniyam Leningradskogo oblastnogo finansovogo otdela (for Kalinin). 4. Predsedatel' komissii po ratsionalizatorskim predlozheniyam Tomskogo oblastnogo finansovogo otdela (for Rychkov). 5. Predsedatel' komissii po ratsionalizatorskim predlozheniyam Ministerstva finansov Estonskoy SSR (for Myandmaa). 6. Predsedatel' komissii po ratsionalizatoskim predlozheniyam predl

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| 1. Zamestitel' zaveduyushchego Tomskim oblfinotdelom. (Income tax) |
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| 이 선생님들이 되는데 하는 사람들이 되는 이 회원들은 경기 회원 수 되면 하지만 하고 되어 가운데 되는 그렇게 |
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| 지수는 그 없는 그는 사람들이 가는 그 가는 사람들이 없는 것이 되는 것이 없는데 없다는 그 수를 밝혔다. |
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| [1] "我们的是我们的是我们的,我们就是一个人,我们的一样,这个人的,我们就会看到这个人,我们就是我的。" |
| 그 하다 되는 사람들은 그들에는 가는 사람들이 가는 사람들이 가는 사람들이 되었다. 그 사람들이 없는 것이 없다. |
| 그리는 그들은 전 학생들이 이 기가가 가지고 있었다. 그는 이 생각 지수는 지수를 가지 않는데 되었다. |
| 어머니는 그리는 경기를 받는다고 하는 사람들은 사람들이 되는 것이 되었다. 그는 그는 그리는 점점 |
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| 그는 이번 회에 되었다. 그런 경우의 전문에 가는 사람들이 되었다. 그는 이 경우에 가는 그리고 한국되었다. |
| 도구 이 가게 되지 수도 되고 가고 하는 것이 없는 이 너지 그 도로 걸리를 받고 선생품인 |
| 医毒素性 医牙上腺 化二氯苯酚 医动态性 医二氏病 医二氏性 医电影 医骶骨 经收益 医神经管 医乳腺管膜炎 |
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| 医二角体 医二甲基 医骨髓体 医二氯甲基 法国际 医克勒氏病 医多克氏病 医电影 法基础基础的 |
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HYCHKOV, A. (at. Korenovekaya, Krasnodarskogo kraya)

Using the 6K3 lamp in place of the 6KJ7 lamp in the MGSRTU-100.
Radio no.6:45 Je '56.
(Amplifiers, Electron-tube)

FYCHKOV, A. A., Engineer; FEL'DSHTEYN, E. I.

Mbr., Gor'kiy Automobile Plant imeni Molotov (-1945-)

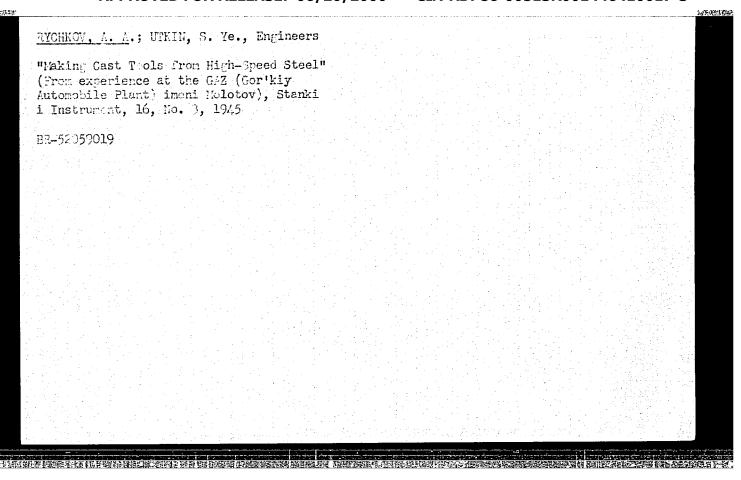
Candidate of Technical Sciences

"The Experience of Introducing Chemical Processing of Cutting Tools into Production,"

Stanki I Instrument 16, Nos. 4-5, 1945

BR-52059019

| | Western VA incinance |
|---|---|
| | William, a. a.; c.a., S. Ye., Engineers |
| | (1) (1) 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| | "Making Cast Cools from High-Speed Steel," |
| | Stanti i Instrument 15 No. 2 1015 |
| | Stanki i Instrument, 16, 40. 3, 1945 |
| | 그 중심한 하는 그 회사에 되는 그를 하고 있다. 그리고 하는 사람들에 하는 것이 가장 보고 있다. |
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| | |
| | 그 병사에 되는 사람들이 되는 사람들이 그렇게 되었다. 그 그 학생들은 이 사람들이 되었다. 그 학생들은 학생들은 사람들이 되었다. |
| , | 老的一个孩子,这一一点的说话,一点点点就是这个话,一个话道像这个话点后来,这是一点点点点点点点点点点点点点。 |
| | 그리 아이들은 사람들이 아이들 때문에 있는데 아무를 하실할 때 그리다는 것이 되었다면 하는데 이를 받는데 함께 함께 하는데 함께 함께 없다면 하는데 함께 함께 하는데 함께 함께 하는데 함께 함께 하는데 |
| | 어제 그렇게 되는 사람들이 되었다. 그 사람들이 하는 것이 없는 것이 되었다. 그 사람들이 되는 것이 없는 것이 없는 것이다. |
| | HER 이 이 전에 이 의용 문에서 원진 원리 이 유민이 하면 하는 이 목표 모이트 이 그리는 하는 것 같아 한 점점 함께 있는데 다른 |
| | "我们是我们,我们们是一个时间,我们就不是一种的话,不是不是一个时间是不是一个,我们也是这个事情的。" |
| | 교사들 회사는 사람들은 하는 사람들은 회사를 하는 것이 되었다. 그렇게 하는 사람들은 하는 사람들이 함께 가득하고 하는다. |
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| | 는 사람들은 사람들은 물건을 보고 하는 것이 되는 사람들은 함께 가는 하는 것이 모양하는 한 중에 불러한다. 첫 생활하다. |
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| | 纵向设施 医多种性 医二十二氏 化二氯二氯化二氯二二烷 化二氯甲烷 医多种性 医多量管 医动物电阻 医外侧性脊髓管 化异 |
| | 어느는 그 하는 그는 사람들은 그는 그 사람들이 가는 사람들이 되는 것이 어느 어느 어느 어느 없는 것이 없었다. |
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| | 회사가 보고 있다. 그리는 그는 그는 사람들은 그는 그 그는 그는 그를 보고 있는 그를 모르는 것이 없었다. |
| | |
| | 그 사람은 그는 경에 가장 되는 병원 사람들이 되었다. 그는 그 나는 것은 그 후 점점이 되었다. 한 불빛이다 |
| | |
| | 经债金 医甲状腺 医大大性 医克里氏 医克里氏 医克里氏 医克里氏 医克里氏 医二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基 |
| | 선배에는 사람들은 그리는 걸리는 그런 사람들은 사람들은 사람들이 가는 사람들이 가는 사용을 하는 것이 없을까요? |
| | 할머니가 그들이 가는 그는 그는 아내는 사람이 가장 그렇게 하는 그들은 그는 그를 되는 것 같아. 그리스를 하는 |
| | 회사는 사람들의 사이트 가는 사람들은 가는 가는 회사에 가는 사람들이 가는 것이 되는 것이 되었다. 그렇게 하는 것 같아요? |
| | 在"我们,我们是不是一个,我们是一个不是一个,我们还是一个一个,我们就是这个人,我们就是一个人,我们就是这个人,不是我是是不是不是 |
| | 그는 하는 사람들은 그 가는 사람들이 되었다. 그 가는 사람들이 가장 하는 사람들이 가장 하는 사람들이 되었다. 그 생각하는 학생들이 되었다. |
| | 왕이는 바람들이 되고 되는 사람이 되고 되는 어떤 사람들이 들어 있는 그를 가는 사람들이 되었다. 그는 사람들이 다른 사람들이 되었다. |
| | 的"身份"都是有一个,一位的"人","我们,我们的"大人","我们的"的"大人","我们"的"大人","我们"的"大人","我们"的"大人"。"我们","我们"的 |
| | 그는 사람들이 하는 사람들은 사람들은 사람들이 그는 사람들이 가장 하는 사람들이 되는 것이 되었다. 그 회에 가득하는 사람들이 되었다. |
| | 그렇게 이 기회의 문화의 이 위에는 시작하는 것이 되는 사람들은 생각하는 사람들이 사용하다는 사람들이 되었다. 그 전략으로 함께 함 |
| | 无禁止 化自动工作 医自动性 医二氏性 医多质红 医斯里尔 经自由信息 医肠性性 医电影 电影 电电影 医皮肤病 医皮肤病 |
| | 하는 그 그 그 그 그 그 가는 그는 것도 가는 보다는 그 가입니다. 그 가지 모양하는 것이 되었다면 다른 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 |
| | 大海南水水 医二十二氏 医二甲基苯二甲基二甲基二甲基二甲基二甲基二甲基二甲基二甲基二甲基二甲基二甲基甲基二甲基甲基二甲基甲基二甲基甲基二甲基 |
| | 이 전문에 가고했다. 그리고 그는 사람들이 있다는 사람들이 가지 않는 사람들이 되었다면 하면 있다는 것이 되었다. 그는 점점 하는 사람들이 살아 되었다. |
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FEL'DSHTERY, E. I.; RYCHKOV, A. A. A., Engineer

Mor., Gor'kiy Autmobile Plant imeni Molotov (-1945-)

"The Experience of Introducing Chemical Processing of Cutting Tools into Production," Stanki I Instrument,

16, Nos. 4-5, 1945

BR-52059019

USSR/Chemistry - Corrosion-proof materials

Card 1/1 : Pub. 50-12/25

Author : Rychkov, A. I., Klinov, I. Ya.

Title : Experience in the application of Asbovinyl as a corrosion-proof

material

Periodical: Khim. prom., No 8, pp 492-93 (44-45), Dec 1954

Abstract : Asbovinyl (polymerized ethynol containing disintegrated asbestos as a

filler) was found to be a satisfactory corrosion-proof material that withstands the action of hydrochloric acid in all concentrations, chloride, chloride of lime, and some other chemicals. It forms a satisfactory substitute for lead and other nonferrous metals in protective coatings and is a suitable material for corrosion-proof tiles, pipes,

アローエフフフ

and parts of chemical equipment. One table.

Institution :

Submitted :

BRYKIN, P.A.; RYCHKOV, A.I., red.

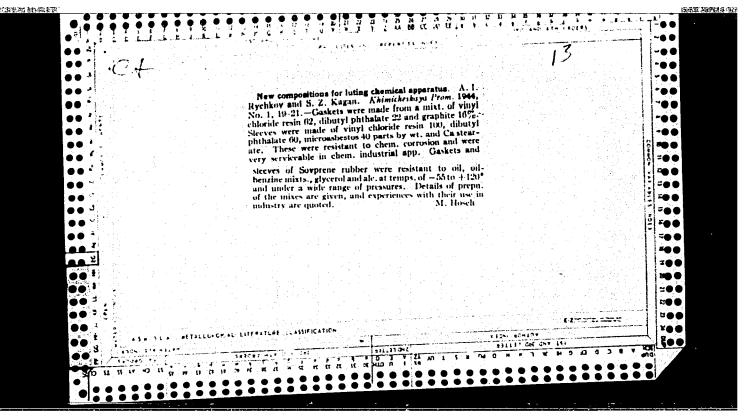
[Establishing norms for geodetic and topographical work.]

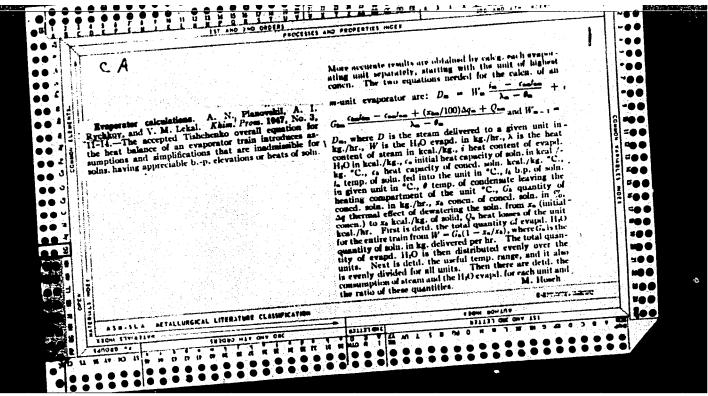
Normirovanie geodezicheskikh i topograficheskikh rebot.

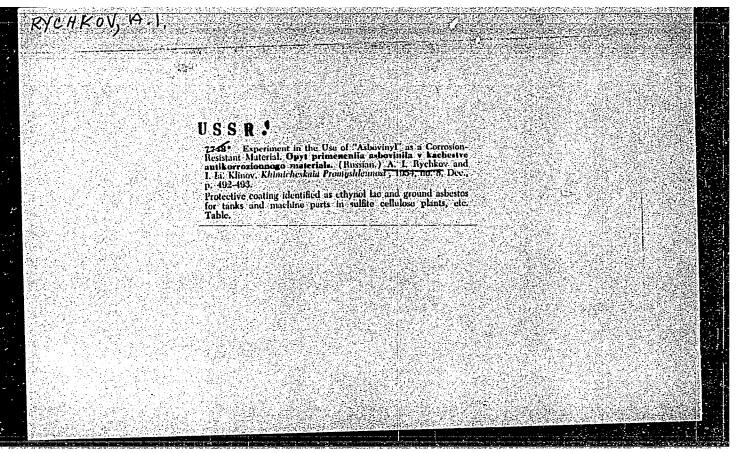
Moskva, Nedra, 1964. 280p. illus. (Moscow. TSentral'nyi nauchno-issledovatel'skii institut geodezii, aeros"emki i kartografii. Trudy, no.162).

(MIRA 17:9)

RYCHKA, V. L., Cand Tech Sci -- (diss) "Theory of frequency detectors of the impulse counter type." Moscow, 1959. 13 pp; (Ministry of Communications USSR, Moscow Electrical Engineering Inst for Communications); 150 copies; price not given; bibliography at end of text (12 entries); (KL, 17-60, 159)







USSR/Chemistry - Chemical engineering, Heat transfer Fyc. 1. Pub. 50 - 9/20 Card 1/1 : Rychkov, A. I., Planovskiy, A. N. Authors : An equation for carculations to determine the coefficients of heat transfer in connection with the boiling of liquids Title : Khim. prom. No 5, 287-290, Jul-Aug 1955 Periodical : Equations for the calculation of heat transfer by convection in boiling liquids are derived. Data for various liq-Abstract uids are used in connection with the derivation, including some on oxygen and Freon-12 taken from USSR sources. Four graphs, 2 tables. Seventeen references; 11 USSR, 9 since 1940.

RYCHKOV, A. I. Doc Tech Sci -- (diss) "Study of the phenomenon of heat exchange in boiling liquids and solutions." Mos, 1956. 36 pp 22 cm. (Min of Higher Education USSR. Mos Order of Lenin Chem-Technological Inst im D. I. Mendeleyev), 100 copies (KL, 7-57, 106)

28

153-58-1-26/29 Popov, B. G., Rychkov, A. I. AUTHORS: Investigation of the Heat Exchange During the Boiling TITLE: of Acqueous Solvents of the Mineral Salts (Issledova= niye teploobmena pri kipenii vodnykh rastvorov mineral!= nykh soley) Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i PERIODICAL: khimicheskaya tekhnologiya, 1958, Nr 1, pp. 173-182, (USSR) The convective heat exchange - complicated by the ABSTRACT: boiling process - is a consequence of complicated phenomena of physics. Various papers on the theore= tical problems of heat exchange are available. Those by Klaassen belong to the earliest. The limited number of such works remains constant not only because of the rather complicated chemical process, but rather on account of the difficulties arising in the field of the experiment. The authors report in this paper on the re= sults obtained by the test for the determination of the coefficient of heat emission with boiling of a preous Card 1/3

Investigation of the Heat Exchange During the Boiling of 153-58-1-26/29 Acqueous Solvents of the Mineral Salts

solvents of sodium sulfate or of lithium sulfate respectively. It was found that the above-mentioned coefficient depends on the type of the dissolved substance, as well as on its concentration in the solvent. The coefficient of heat emission decreases according to the increased concentration (see figures 3 to 5). The exponent n in the equation $\alpha = A \cdot q^n$ depends equally on the nature of the dissolved sub= stance and its concentration in the solvent. With most of the solvents the exponent n decreases The temperature depression exercises great influence on the coefficient of heat emission. Generalizing the results of the data of investigation on the critical equation (Reference 7) these data come to lie in the same line - with a maximum deviation of 12%. There are 7 figures and 16 references, 12 of which are Soviet.

ASSOCIATION:

Moskovskiy institut khimicheskogo mashinostroyeniya (Moscow Institute for Chemical Machine Building)

Card 2/3

Kafedra khimicheskogo apparatostroyeniya (Chair of Chemistry

Equipment Design)

| 3 (4) AUTHOR: | Rychkov, A. I. S0v/6-59-5-6/26 |
|------------------|--|
| TILE: | The Experience Cained in the Drawing-up of the Technical Work Projects for the Topographic-geodetic Field Work (Cpyt rabochego tekhnicheskogo proyektirovaniya polevykh topografo-geodezicheskikh rabot) |
| PERIODICAL: | Geodeziya i kartografiya, 1959, Nr 5, pp 19-22 (USSR) |
| Card 1/2 | The topographic-geodetic work is carried out on technical projects in the aerogeodetic enterprises. Said projects are drawn up by a planning office on the basis of a preceding general study of the area in which the work is to be carried out, use being made of the best and most appropriate procedure in the carrying-out of this work. The approved technical project constitutes the basic document for the carrying-out of the topographic-geodetic work. In order to realize the technical project, however, detailed work projects must be drawn up. In the Moskovskoye aerogeodezicheskoye predprivative (Moseou derogeodetic terprise) the work projects are, as a rule, drawn up by the field subdivisions entrusted with the carrying-out of the field work in section concerned. With the field parties, the |

The Experience Gained in the Drawing-up of the SOV/6-59-5- /25 Technical Work Projects for the Topographic-geodetic Field Work

chief engineers are responsible for the work projects, whereas the chief topographers, engineers, and heads of groups are the executive organisms proper. - In the paper under consideration the carrying-out of work in the drawing-up of the work projects is described in great detail.

Oard 2/2

FEDOROV, S.A., doktor tekhn. nauk; RYCHKOV, A.I., inzh.; KRAYEV, Yu.K., inzh.; RCZHENTSEV, N.P., inzh.

Using a flexible concrete stone ring lining. Shakht. stroi.
9 no. 12:17-18 D '65. (MIRA 18:12)

1. Sverdlovskiy gornyy institut (for Fedorov, Rychkov, Krayev).
2. Trest Yegorshimugol' (for Rozhentsev).

| 1959-66 EWT(m)/EPF(c)/EWP(j | | UR/0286/65/000/014/0019/0019 |
|---|---|-------------------------------|
| ACCESSION NR: APSUZIGIO | 4 | 661.717.5: 66.099.2 |
| WA136 | 442 / | 29 |
| AUTHOR: Shakhova, N. A.; Rych | kov, A. I: | 16 B |
| AUTHOR: Shakhova, H. A., TITLE: Preparative method for | granulated urea. Class | 12, No. 172759 |
| TITLE: Preparative meshod 10- | | . 14 1965, 19 |
| SOURCE: Byulleten' izobreteni | y i tovarnykh znakov, ne | |
| derit | inorganic synthesis | 원 등은 기업 하는 사람은 경기를 받는 것이 되었다. |
| TOPIC TAGS: urea, spray w.j. | | nreparative method for gran- |
| ABSTRACT: An Author Certific ulated urea. The method involunted urea dist | ate has been issued for | nis and carbon dioxide under |
| | | |
| pressure with subsequent dist solution, blown by hot air, i | s spray dried to form a | |
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| ASSOCIATION: none | | SUB CODE: |
| SUBMITTED: 110ct61 | encl: 00 | ATD PRESS: 4089 |
| NO REF SOV: 000 | OTHER: 000 | ATD PRESS: 4 |
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TETERIN, Yegor Nikolayevich; SHUBIN, Nikolay Vasil'yevich;

OCHERET'KO, Aleksandr Konstantinovich; PAVLOV,

Vitaliy Fedorovich, dots; BARANOV, A.N., retsenzent;

SUKHOV, A.I., retsenzent; POVALYAYEV, P.I., nauchn.—

pedagog. rabotnik, retsenzent; PROKOF'YEV, F.I., nauchn.—

pedagog. rabotnik, retsenzent; RYCHKOV, A.I., nauchn.—

pedagog. rabotnik, retsenzent; YLRO7, S.I., retsenzent;

KHROMCHENKO, F.I., ved. red.

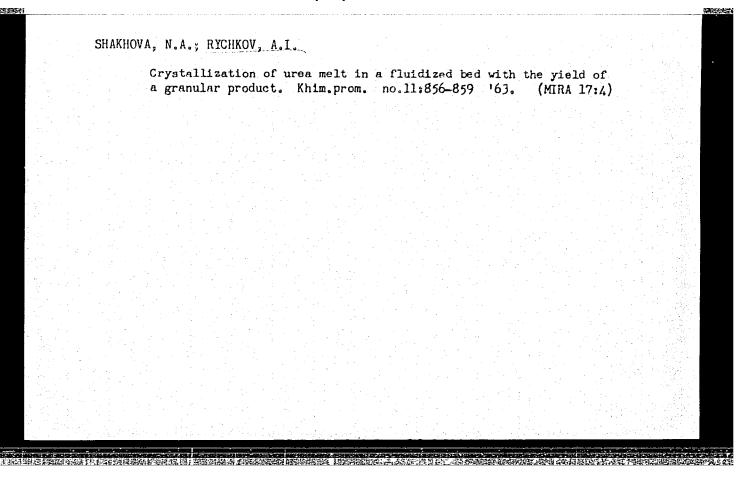
[Organization and rlanning of surveying and topographical work] Organizatsiia i planirovanie geodezicheskikh i topograficheskikh rabot. Moskva, Nedra, 1965. 299 p. (MIRA 18:7)

1. Zaveduyushchiy kafedroy organizatsii i planirovaniya kartografo-geodezicheskikh rabot Moskovskogo instituta inzhenerov geodezii, aerofotos"yemki i kartografii (for Sukhov). 2. Kafedra organizatsii i planirovaniya kartografo-geodezicheskikh rabot Moskovskogo instituta inzhenerov geodezii, aerofotos"emki i kartografii (for Povalyayev, Prokof'yev, Rychkov, Pavlov). 3. Glavnoye upravleniye kapital'nogo stroitel'stva Ministerstva putey soobshcheniya SSSR (for Rychkov). 4. Nachal'nik Glavnogo upravleniya geodezii i kartografii SSSR (for Baranov).

RYCHKOV, A.I. [deceased]

Simplified calculation formulas for determining the coefficients of neat transfer in the film condensation of pure slowly moving vapors. Trudy MIKHM 26:137-160 '64.

(MIRA 18:5)



KIBRIK, E.D.; RYCHKOV, A.I.

Study of heat transfer during emporation of solutions of urea in a wetted-wall evaporator of the rotary type. Khim.prom. no.7: (MIRA 16:11) 527-531 Jl '63.

| | | Prepara an appa N '62. | RYCHKOV tion of cratus wi | dry gram th a flu (Fert | ilizers & | and mam | res) | (MIRA | 16:2) | 2 | | |
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SHAKHOVA, N.A.; RYCHKOV, A.I.

Drying of the copolymer MSN (methyl methacrylate, styrene, and acrylonitrile) in a fluidized bed. Plast.massy no.1:49,52 (63. (Polymers—Drying) (Fluidization)

S/191/63/000/001/012/017 B101/B186

AUTHORS:

Shakhova, N. A., Rychkov, A. I.

TITLE:

Drying of MCH(MSN) copolymer in the fluidized bed

PERIODICAL:

Plasticheskiye massy, no. 1, 1963, 49-52

TEXT: MSN, a copolymer of methyl methacrylate, styrene, and acrylonitrile, m.p. 98°C, at 90% consisting of grains 0.4-1 mm in diameter, was dried in the fluidized bed of a testing apparatus. A fluidized bed already formed at an air velocity of 0.08 m/sec. The drying process was conducted at 0.195-0.324 m/sec, an air temperature of 86.7-134°C, and a fluidized bed temperature of 36-49°C. The drying capacity referred to 1 m² of drier surface was 31.8 kg/hr of removed moisture, or 24.4 kg/hr referred to 1 m³ of the apparatus. 263 kg/m²·hr, or 20°2 kg/m³·hr of dry product was obtained. Conditions recommended: air temperature 120-135°C, temperature in the fluidized bed 48-50°C, relative moisture of the outgoing air 55%, height of the fluidized bed 200-350 mm, air velocity 0.32-0.35 m/sec. In a second series of tests an additional heater was introduced in the fluidized bed, consisting of Card 1/2

Drying of MCH(MSN) copolymer ..

S/191/63/000/001/012/017 B101/B186

16 half-inch pipes, 180 mm long, which were electrically heated. The capacity increased to 100 kg of removed moisture per m²·hr, 700 kg/m² dry product. The heat transfer coefficient was 200-400 kcal/m²·hr·°C, the temperature of the ingoing air was 120°C, the temperature in the fluidized bed 55°C, the height of the bed 400 mm, its resistance corresponded to the capacity of air heated to 270-260°C. The additional heater caused no stagnation in the fluidized bed. The procedure is are 5 figures and 5 tables.

Card 2/2

FEDOROV, S.A., prof., doktor tekhn.nauk; SHCHUKIN, A.S., kand.tekhn.nauk; ANDREYEV, Ye.T., kand.tekhn.nauk; GORBUNOV, B.F., starshiy prepodavatel'; SIMANOV, V.G., assistent; RYCHKOV, A.I., assistent; GILEV, B.M., assistent

Qualifications of a mine building engineer. Shakht stroi. 5 no.7:6.7 Jl '61. (MIRA 15:6)

1. Sverdlovskiy gornyy institut.
(Mining engineering)

SHAKHOVA, N.A., kand.tekhn.nauk; HYCHKOV, A.I., doktor tekhn.nauk;

DMITRENKO, Ye.V.

Drying of crystalline ammonium bicarbonate in a fluidized bed.

Khim.prom. no.ll:783-786 N '61. (MIRA 15:1)

(Ammonium carbonate) (Fluidization)

CIA-RDP86-00513R001446410017-3 "APPROVED FOR RELEASE: 06/20/2000

S/123/61/000/014/044/045 A004/A101

AUTHOR:

Rychkov, A.I.

TITLE:

Some examples of designing chemical apparatus from titanium

PERIODICAL:

Referativnyy zhurmal. Mashinostroyeniye, no.14, 1961, 1, abstract 14Kh1 ("Tr. Mosk. In-ta khim. mashinostr.", 1960, v. 22, 86 - 95)

TEXT: The author describes the operation conditions of chemical apparatus. He presents the physical-mechanical and other properties of Ti which combines strength with a high ductility and plasticity. Ti does not lose its strength when being heated up to 430°C and is used in the form of sheet sheathing of the base structural material. The author presents a table of the heat conductivity, thermal capacity and coefficient of linear expansion of Ti and other metals. He describes chemical apparatus manufactured with the application of Ti including: heat exchangers, refrigerators, barometric condensers, drum-type driers, spiral tubes, utilizer-boilers, plate filter presses, autoclaves with mixer and pan driers, as well as valve structures from titanium and pump welded impellers. The demands are investigated which are made for the

Card 1/2

CIA-RDP86-00513R001446410017-3"

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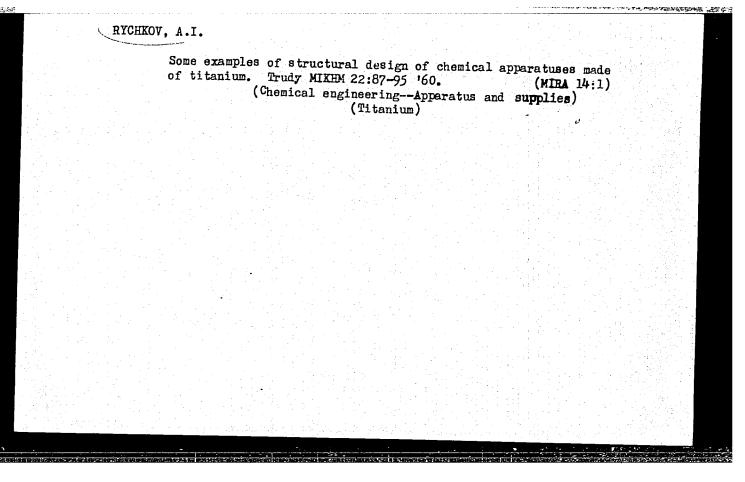
Some examples ...

Some examples ...

manufacture of apparatus from titanium. The author emphasizes the great possibilities and prospects of using Ti in the chemical and other fields of industry. There are 12 figures and 9 references.

G. Blagovo

[Abstracter's note: Complete translation]



| R | YCHKOV, B.V. |
|---|---|
| | Treatment of skin diseases of virus and hypothetical virus etiology with rivanol. Vest.derm. i ven. 34 no.12:64 160. |
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BASHUN, M.I.; VASIL'YEV, A.M.; GLADYSHEV, G.I.; RYCHKOV, B.V.; SMIRNOV, V.S.; FISHBEYN, P.A., inzh., red.; ARTYUKHIN, V.A., red. izd-va; UVAROVA, A.F., tekhn. red

[Catalog of spare parts for the ZIS-5, Ural ZIS-355, Ural ZIS-355B and Ural ZIS-355M motor trucks] Katalog zapasnykh chastei avtomobilei ZIS-5, Ural ZIS-355, Ural ZIS-355B i Ural ZIS-355M. Moskva, Gos. nauchno-tekhm. izd-vo mashinostroit. lit-ry, 1961. 354 p. (MIRA 14:8)

1. Ural'skiy avtomobil'nyy zavod imeni V.I.Stalina. 2. Rabotniki Otdela glavnogo konstruktora Ural'skogo avtomobil'nogo zavoda imeni V.I.Stalina (for all except Fishbeyn, Artyukhing Uvarova)

(Motortrucks—Catalogs)

RYCHKOV, I., kand.tekhn.nauk

Working out projects and plans. Sel'.strol. 15 no.9:15 S '60.
(MIRA 13:9)

(Regional planning)

| Application of Aerial Photography to Large-Scale Mapping of Coal Deposits Samoylovich, G.G. [Lesotekhnicheskaya akademiya imeni S.M. Kirova - Forestry Academy imeni S.M. Kirov]. Use of Aerial Photographs in Forestry Rychkov, I.N. [Soyuzkhozaeros''yemka - All-Union Photogrametric Services for Agriculture]. Results of Using Aerial Photography for the Benefit of Soviet Agriculture 1931-56 Artsybashev, Ye.S. [Laboratory of Aerial-Surveying Methods]. Study of Spectral Reflecting Power of Forest Stands and Types (Annotation) | V.7. Materials of | Wie Pallon (| Conf. Aerial Surv | ev (Dec 56) Massa | |
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| Results of Using Aerial Photography for the Benefit of Soviet Agriculture 1931-56 Artsybashev, Ye.S. [Laboratory of Aerial-Surveying Methods]. Study of Spectral Reflecting Power of Forest Stands and Types (Annotation) | Forestry Academy 1 | meni S.M. Kirov]. | | 1 S.M. Kirova - | 257 |
| Study of Spectral Reflecting Power of Forest Stands and Types (Annotation) 271 | Services for Agric Results of Usin | ulture]. g Aerial Photogra | | 보고 하는 내가 되었다. | 265 |
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| | Small self-propelling floating pumping st irrigation. Gidr. i mel. 12 no. 12:20-28 | 5 D '60' (HIRA 14.17 | |
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27836 5/032/61/027/010/012/022 B104/B102

55500

Rychkov, R. S., and Glukhareva, N. A.

AUTHORS: TITLE:

Application of the radioactivation analysis to the determina-

tion of microimpurities in semiconductor materials

PERIODICAL:

Zavodskaya laboratoriya, v. 27, no. 10, 1961, 1246 - 1250

TEXT: I. D. Berkutova, A. K. Gofman, N. A. Glukhareva, G. A. Kuznetsova, R. S. Rychkov, and N. B. Smirnova have worked out a method for the activation analysis of Ge, Si, SiO₂, SiC, SiCl₄, Al, C, and GaAs to determine the content of Au, Cu, So, Zn, and other impurities. Such microimpurities were successfully excited in a reactor and could thus be exactly identified from their 7-spectrum. The measurements were made with a multi-channel scintillation spectrometer whose NaI(T1) crystal had a size of 40.40 mm. \$\Phi \text{9} \text{y-29}(FEU-29) and \$\Phi \text{9}\text{y-15}(FEU-1B) photomultipliers as well as 50-AN-1(50-AI-1) and AN-100(AI-100) analyzers were used in the electronic device. The specimens were carefully purified from surface contaminations and subsequently irradiated in quartz or polyethylene ampoules together with standards. After the irradiation the specimens were carefully

Card 1/2

Application of the radioactivation...

27836 S/032/61/027/010/012/022 B104/B102

purified once more. Na, Ta, Cr, Fe, Zn, Sb, Co, and Sc were determined directly from the f-spectrum, if the specimens to be examined contained only insignificant amounts of impurities, and if one and the same specimen did not contain several impurities at the same time. Otherwise the specimens were decomposed by various chemical methods, and the interfering elements were removed. The microimpurities in the preparations thus obtained were determined from their f-spectra which were compared with those of the standards. Practical tests have proved the method described here to be useful, both in technical and economic respect. Finally, security measures to be followed in the irradiation of specimens and standards in a reactor are briefly discussed. There are 1 table and 13 references: 3 Soviet and 10 non-Soviet. The three most recent references to English-language publications read as follows: G. H. Morrison. Anal. Chem., v. 26, no. 3 (1956). G. H. Morrison. Anal. Chem., v. 27, no. 5 (1955); A. A. Smales, Mapper. Atomic energy research establishment (1957).

X,

Card 2/2

RYCHKOVA, A.G.; KELLER, R.E.

Syntheses of vinyl furfuryl ether, ethyl furfuryl and n-butylfurfuryl-acetaldehyde acetals. Zhur.ob.khim. 31 no.6:1849-1851 Je '61. (MIRA 14:6)

Voronezhskiy lesotekhnicheskiy institut.
 (Furfuryl alcohol) (Acetaldehyde)

AUTHORS:

Rychkova, A.G., and Keller, R.E.

TITLE

Synthesis of vinylfurfurol ether, ethylfurfurol-and-n-buthylfurfurol acetaldehyde acetals

PERIODICAL: Zhurnal obshchey khimii, v.31,no.6,1961,1849-1851

By direct addition of acetylene to furfurol alcohol,

TEXT: vinyl furfurol ester

(I)- CH₂O - CH=CH₂

was synthetized. Action of furfurol alcohol on the vinyl esters of ethyl and buthyl alcohols, ethylfurfurol-and-buthylfurfurol acetaldehyde acetal were synthetized, i.e.

- R - CH₂ O C₄ H₃ where $R = C_2H_5$, $H - C_4H_9$

Card 1/4

Synthesis of vinylfurfurol ether, ethylfurfurol-and-n-buthylfurfurol acetaldehyde acetals

The furfurol alcohol was obtained from furfurol by the Cannizaro reaction. The authors explain the synthesis process of vinyl furfurol ether and point out that the composition of vinyl ether in respect of acetaldehyde was found by the hydrolytic oxime formation method of M.F. Shostakovskiy (Ref 1: Prostyye vinilovyye efiry, (Simple Vinyl Ethers), Izd. AN SSSR, 1952), and found to be 98.68, (80.28% aldehyde. Vinylfurfurol ether polymerizes to a viscous liquid in the presence of iron chloride. The initial materials for the synthesis of acetaldehyde acetal were: vinyl ethyl ether (b.pt. 39.5° C, $n_{D}^{20} = 1.377$, $d_{A}^{20} = 0.7532$), vinyl-n-buthyl ether (b.pt. 39.5° C, $n_{D}^{20} = 1.4026$, $d_{A}^{20} = 1.7791$) and furfurol alcohol. The synthesis was done by the method of Favorskiy-Shostakovskiy (Ref 1: Op. cit). During synthesis the cooling continued in order to cut down the side reaction and possible decomposition of acetalehyde and corresponding alcohols (Ref 2: M.F. Shostakovskiy and Card 2/4

Synthesis of vinylfurfurol ether, ethylfurfurol-and-n-buthylfurfurol acetaldehyde acetals

N.A. Gershteyn, ZhoKh, 16, 937, 1946). When the reaction ended the temperature was brought to room temperature, potash added to neutralize the acid and then distilled in vacuo. The final purification was done with metallic sodium and re-distillation in vacuo. Yield 24.2 grams (51.99%). The hydrolytic oxime formation yielded 97.34, 98.24% of aldehyde. N-buthylfurfurol-acetaldehyde was synthetized using 24.5 gr. of furfurol alcohol and 25.05 gr. of vinyl-n-buthyl ether mixed in a flask fitted with a thermometer. After addition of a catalyst - a drop of concentrated hydrochloric acid - the temperature rose to 93°C. When the reaction ended the excess acid was neutralized with fresh potash and distilled in vacuo. Further purification was done with metallic sodium and redistillation in vacuo. The yield of acetal was 29.66 gr. (59.84%). The hydrolytic oxime formation gave 97.34, 98.72% of aldehyde. The acetal obtained was a colorless liquid with a pleasant fruity odor, of good solubility in ether, alcohol and benzene. There are

Card 3/4

Synthesis of vinylfurfurol ether, ethylfurfurol-and-n-buthylfurfurol acetaldehyde acetals

2 Soviet-bloc references.

ASSOCIATION: Voronezhskiy ${f l}$ esotekhnicheskiy institut (Forestry Engineering Institute, Voronezh)

SUBMITTED : July 1, 1960

Card 4/4

KELLER, R.E.; RYCHKOVA, A.G.; PRUDNICHENKO, Ye.K.

Vinyl esters, their polymers and copolymers based on synthetic alcohol of the Shevekino-Combine of Synthetic Fatty Acids and Fatty Alcohols. Zhur. prikl. khim. 33 no.12:2801-2802 160.

(MIRA 14:1)

1. Voronezhskiy lesotekhnicheskiy institut.
(Esters) (Vinyl compounds)

24282

9,2150

Z/017/61/050/009/002/002 D219/D304

AUTHOR:

Rychtarik, Vaclav, Engineer

TITLE:

Measuring the thermal resistance of semiconductor

power diodes

PERIODICAL:

Elektrotechnický obzor, v. 50, no. 9, 1961,

488 - 491

TEXT: The author describes a simple method of measuring the thermal resistance of Ge and Si power diodes without mechanically adapting the diode system. The thermal resistance is expressed by the function $K_1 = \frac{\sqrt{1-\sqrt{1-p}}}{\sqrt{1-\sqrt{1-p}}}$, and parameters which have to

be measured are: The crystal (junction) temperature v_j ; the envelope surface temperature v_j ; and the electric power loss P. The temperature of the junction v_j ; can be determined indirectly by measuring another temperature-dependent parameter. Such a parameter, very often measured, is the inverse voltage, but better results are achieved by measuring the voltage loss on the junction in low-resistance direction at constant forward

Card 1/6

24282

Z/017/61/050/009/002/002

Measuring the thermal resistance... D219/D304

current. This loss is inversely proportional to the junction temperature when the forward current is at least $103-10^{4}$ times larger than the inverse voltage. It is recommended taking two measurings, one at normal ambient temperature, the other 20°C above normal ambient temperature. The temperature of the envelope surface 3° can be measured either by wetting the diode with a rapidly circufating liquid (e.g. pure transformer oil) or immersing it in boiling water. Isothermic conditions are thus created on the envelope surface and the temperature can be measured precisely. The electric power loss P is calculated from the voltage and current losses, whose arithmetic means are measured with a DEPREZ device. The measuring of the thermal resistance K_1 is performed at constant ambient temperature 3° (while the junction temperature 3° increases with the load). The specific current (IAKM) shown in the circuit in Fig. 8 supplied by the battery (B) is regulated by resistors R_1 and R_2 and passes through measuring instrument M_1 and the switch S_2 to the diode

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to be measured (MD); the semisinusoidal heating current (IAK) comes from the transformer TR₁ and flows through switch S₃, the regulation resistors R₃ and R₁, the auxiliary diode D and the measuring instrument M₂ to the diode MD. Wired parallel to the diode MD are the voltmeter M3 for measuring the voltage loss (UAK) over the switch S₁, and a d/c compensator bridge for measuring the specific loss (UAKM) over the contact (r₁₁) of the synchronous vibrator SV. The vibrator is supplied from the transformer TR₂ over the phase element RC. At first, the battery B is connected to the diode MD, the vibrator started, and the specific loss (UAKM) on the diode MD is adjusted with the aid of R₁ and R₂ and checked with the compensator. This serves to determine the initial value of the junction temperature of j. Then a suitable heating current (IAK) is applied by operating the switch S₃. The compensator must be connected by the vibrator contact only when no heating current flows. This means that a half-wave is on the transformer TR₁ which is not passed by the diode D. Correct phase adjustment is provided by the element RC. The compensator measures then only specific loss $U_{\mbox{\scriptsize AKM}}$ at

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a constant current IAKM. This serves to ascertain the junction temperature under load. The power loss of the diode MD is calculated from values UAK and IAK according to P = 2 UAK IAK. The auxiliary diode D must be of the same type as measured diode MD, must have minimum inverse current, and must be efficiently chilled. There are 8 figures and 5 references: 1 Soviet-bloc and 4 non-Soviet-bloc. The references to English-language publications read as follows: D. M. Goodway - J. S. Walker: The use of heat sinks with silicon power transistors. 1958, X. Semicond. Appl. Report 1, no. 3, p 3 - 14; H. C. Lin - R. E. Crosby: A determination of thermal resistance of silicon junction devices. 1957, III, IRE nat. Conv. Rec. 5, P3, p 22 - 25; J. Tellermann: Measuring transistor temperature rise. 1954, IV, Electronics 4, p 185 - 187; R. F. Gates - R. A. Johnson: The measurement of thermal resistance. 1959, VI, Semicond. Products, 6, p 21 - 26.

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2/017/61/050/009/002/002 D219/D304 Measuring the thermal resistance...

Výzkumný ústav sdělovaci techniky A. S. Popova (Research Institute for Telecommunications A. S. Popov) ASSOCIATION:

SUBMITTED: December 14, 1960

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Rychtera, Miroslav, Engineer AUTHOR:

Acceleration Factors for Climatic Tests of Dielectrics TITLE: in "Cyclic Damp Heat" Compared with Exposure to Humid

Tropical Atmospheres

PERIODICAL: Slaboproudy obzor, 1960, Vol 21, No 8, pp 480-484

ABSTRACT: The article presents a pseudo-mathematical discussion of accelerated climatic tests. The ratio of exposure times to cyclic damp heat and to actual tropical atmospheres for given damage is obtained empirically. The author is aware that a theoretical solution of the problem is very difficult because of the indefinability of the actual atmosphere, the schematic character of the test

atmosphere, inadequate experimental data, etc.
There are 3 figures, 1 table and 8 references, 3 of

which are Czech, 3 German, 1 Soviet and 1 English.

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SUBMITTED: March 25, 1960 Card 1/1

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AUTHOR:

Rychtera, Miroslav, Engineer

TITLE:

Humid-heat microclimatic test for electro-insulation

varnishes

PERIODICAL:

Elektrotechnický obzor, v. 50, no. 8, 1961, 445-449

TEXT: The author lists the conventional methods for measuring electrical properties of insulation varnishes in humid-heat climatic tests and describes a novel, more advantageous microclimatic test method. Conventional humid-heat climatic tests are performed in rather large and expensive, automatically controlled chambers, and produced test values are subject to errors which must not be neglected. More advantageous is a microclimatic test method which uses a thermostat and test tubes containing some salt solution or water which are sealed by a plug, through which the specimen is led, its conductor thus performing as electrode and its insulation as bushing. Such a tube for testing the insulation varnish of a multiwire cable is shown in Fig. 1. The insulated cable

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